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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/715,681	11/17/2000	Yoav Raz	EMS-00202	4765
26339 7590 07/24/2007 MUIRHEAD AND SATURNELLI, LLC			EXAMINER	
200 FRIBERG	PARKWAY, SUITE 1001	,	DADA, BEEMNET W	
WESTBOROUGH, MA 01581			ART UNIT	PAPER NUMBER
•			2135	
	•		MAIL DATE	DELIVERY MODE
			07/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	A					
	Application No.	Applicant(s)				
	09/715,681	RAZ ET AL.				
Office Action Summary	Examiner	Art Unit				
	Beemnet W. Dada	2135				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,						
WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 07 M	ay 2007.					
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
• 4)⊠ Claim(s) <u>1-7,22-28,41-52 and 63-65</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7,22-28,41-52 and 63-65</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	ſ.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
and the second s						
AMark marks						
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 5/7/7.  5) Notice of Informal Patent Application  6) Other:						

## **DETAILED ACTION**

1. This office action is in reply to an amendment filed on May 07, 2007. Claims 1, 22 and

41, have been amended. Claims 1-7, 22-28, 41-52 and 63-65 are pending.

## Response to Arguments

2. Applicant's arguments with respect to claims 1, 22 and 41 have been considered but are most in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-7, 22-28, 41-52 and 63-65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Waldin et al. US Patent 6,094,731 (hereinafter Waldin) in view of Drew US 6,928,555 B1.
- 5. As per claim 1, 41, 63 and 65, Waldin teaches a method of scanning a storage device for viruses, comprising:

determining physical portions of the storage device that have been modified since a previous virus scan using information about the physical portions without using information about a file structure, a file system, or a file type [column 2, lines 57-64 column 6, lines 37-47 and column 3, lines 5-45]; and

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scanning at least parts of the physical portions for viruses, wherein scanning performed without using information about a file structure, a file system or a file type [column 6, lines 43-46], column 7, lines 37-46, column 7, line 64 – column 8, line 8 and column 3, lines 5-45].

Waldin is silent on detecting by the storage device write operations to tracks of the storage device, and providing to an antivirus unit by the storage device, information indicating which tacks of the storage device have been accessed for a write operation and scanning those tracks. However, it is old and well known in the art to detect a write operation to tracks of a storage device and scan the tracks of the storage device by an antivirus unit, which has an advantage of enhancing the security of the system by performing virus scanning of the device on every access of the tracks of the storage device. For example, Drew teaches a virus scanning method, including detecting, by a storage device write operations to tracks of the storage device [column 3, lines 40-55 and column 4, lines 5-25]; providing to an antivirus unit by the storage device, information indicating which tracks of the storage device have been accessed for a write operation [column 3, lines 40-55 and column 4, lines 5-25]; and scanning portions on those tracks to which a write operations have been directed (i.e., scanning a file for a virus corresponds to scanning portions on the tracks of the storage device) in accordance with information provided by the storage device [column 3, lines 40-55 and column 4, lines 5-25]. It would have been obvious to one having ordinary skill in the art at the time of applicant's invention to employ the teachings of Drew within the system of Waldin in order to further enhance the security of the system.

6. As per claims 2 and 42, Waldin further teaches the method, wherein the physical portions correspond to tracks (sectors) of the storage device [column 4, lines 4-8 and figure 1].

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7. As per claims 3 and 43, Waldin fruther teaches the method, wherein the physical portions correspond to sectors of the storage device [column 4, lines 4-8 and figure 1].

- 8. As per claims 4 and 44, Waldin further teaches the method, wherein the physical portions correspond to sub-portions of the storage device [column 4, lines 4-8 and figure 1].
- 9. As per claims 5 and 45, Waldin further teaches creating a table that is indexed according to each of the portions [fig 1, unit 10 and column 4, lines 4-8]. Waldin also teaches scanning for viruses when it has been determined that portions have been modified [column 4, lines 9-12], and calculating a new hash value upon determination of a modification [column 4, lines 58-60]. Drew, further teaches scanning portions of a storage device to which a write operations have been directed (i.e., scanning a file for a virus corresponds to scanning portions on the tracks of the storage device) in accordance with information provided by the storage device [column 3, lines 40-55 and column 4, lines 5-25].
- 10. As per claims 6 and 7, Waldin further teaches method, wherein creating the table includes copying another table provided by the storage device [column 3, lines 50-55, figure 1, originating and recipient computers].
- 11. As per claims 46, 51 and 52 Waldin further teaches the method, wherein said means for coupling includes means for coupling to only one storage device [column 3, lines 47-55].
- 12. As per claims 47-50, Waldin further teaches the method, wherein said means for coupling includes means for coupling to more than one storage device [column 8, lines 20-30].

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13. As per claims 22-28 and 64, the claimed steps correspond to the functions of the elements of the method claims 1-7, which has been rejected above and thus rejected with the same reason applied thereto.

## Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beemnet W. Dada whose telephone number is (571) 272-3847. The examiner can normally be reached on Monday - Friday (9:00 am - 5:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Beemnet W Dada

July 18, 2007

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100